

OIML Member State
The Netherlands

Number R85/2008-A-NL1-20.01 revision 2
Project number 3570224
Page 1 of 3

Issuing authority
Person responsible: NMi Certin B.V.
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Applicant and
Manufacturer Endress+Hauser SE+Co. KG
Hauptstrasse 1
79689 Maulburg
Germany

Identification of the
certified type An **automatic level gauge**
Type: NMR81 and NMR84

Characteristics See page 2 and further

This OIML Certificate is issued under scheme A.

This Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML Type Evaluation Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

R 85-1 & 2 (2008) "Automatic level gauges for measuring the level of liquid in stationary storage tanks"

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation identified above. This Certificate does not bestow any form of legal international approval.

This certificate and supporting reports comply with the requirements of OIML-CS-PD-07 clause 6.2.

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Issuing Authority

NMi Certin B.V., OIML Issuing Authority NL1
10 October 2022

Certification Board

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OIML Member State
The Netherlands

Number R85/2008-A-NL1-20.01 revision 2
Project number 3570224
Page 2 of 3

The conformity was established by the results of tests and examinations provided in the associated reports:

- No. NMI-16200591-01 dated 19 December 2016 that includes 53 pages;
- No. NMI-16200591-02 dated 19 December 2016 that includes 17 pages;
- No. NMI-1902618-01 dated 11 May 2020 that includes 25 pages;
- No. NMI-2491609-01 dated 25 November 2020 that includes 52 pages;
- No. NMI-2491609-02 dated 25 November 2020 that includes 20 pages.

Characteristics of the measuring instrument

In Table 1 the general characteristics of the measuring instrument are presented.

The construction of the measuring instrument is recorded in the Documentation folder no. T8910-4.

Table 1 General characteristics

Measuring range	See table 2
Ambient temperature range	-25 – +55 °C; condensing humidity
Power supply voltage	- AC mains 100 ... 240V AC (-15% / +10%) @ 50/60Hz - AC mains 65 V AC (-20% / +15%) @ 50/60Hz - DC mains 24 ... 55 V DC (-20% / +15%)
Software identification	Version number: 01.02.00 with checksum: 0x51D2 Version number: 01.02.01 with checksum: 0xD919 Version number: 01.03.03 with checksum: 0x72A3 Version number: 01.03.04 with checksum: 0xA032 Version number: 01.04.01 with checksum: 0xcd68 Version number: 01.05.00 with checksum: 0xcfd8 Version number: 01.06.00 with checksum: 0xad3f

The complete family of measuring instruments (which are of similar construction) have the following characteristics indicated in table 2.

Table 2 General characteristics of the family of instruments

Type	Maximum measuring range
Type NMR81	30 metre
Type NMR84 size DN100	20 metre
NMR84 size DN150 Optional horn antenna's DN200, DN250 or DN300	35 metre*

*) For NMR84 size DN150 (optional with horn antenna's DN200, DN250 or DN300) a calibration up to 30 metre is sufficient for use of a maximum measuring range of 35 metre.

OIML Member State
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Number R85/2008-A-NL1-20.01 revision 2
Project number 3570224
Page 3 of 3

Certificate history:

This revision replaces the previous version.

Revision	Date	Description of the modification
Initial	10 December 2020	-
1	25 March 2021	Added new software version 01.05.00
2	10 October 2022	Added new software version 01.06.00 and new hardware